



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-840-EM10WLP-DIM-UNV(EMER MODE)\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-10-2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-840-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[\_SEARCH\_MOUNTING] Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5474	4417	4176
55	4641	3703	3742
65	3644	3164	3399
75	2509	2586	3016
85	1121	2194	2644

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## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	512.858	512.858	512.858	512.858	512.858
5	517.269	510.768	510.536	509.375	503.339
10	508.447	502.642	503.107	501.714	496.142
15	494.284	488.712	490.105	488.712	484.069
20	470.603	466.424	470.603	468.514	463.638
25	441.350	439.725	443.440	443.208	436.010
30	409.079	409.775	413.954	413.954	405.132
35	369.610	375.183	377.272	377.969	368.914
40	326.660	335.018	333.160	336.875	332.232
45	284.637	292.067	291.602	298.335	297.174
50	241.686	248.419	253.759	265.135	267.457
55	197.574	205.932	217.773	234.721	242.383
60	156.016	166.232	186.430	207.325	217.309
65	116.084	132.335	157.642	181.555	191.770
70	79.633	100.993	128.156	154.159	166.232
75	50.612	71.043	101.689	127.692	139.765
80	27.628	47.362	79.866	103.547	114.691
85	8.822	29.021	60.596	81.723	92.170
90	0.000	18.806	46.201	65.936	73.133
95	0.000	17.180	43.183	60.364	64.543
100	0.000	16.252	40.165	55.024	58.738
105	0.000	14.859	37.611	50.845	54.559
110	0.000	13.930	35.057	47.594	51.309
115	0.000	12.769	32.039	44.576	48.059
120	0.000	10.912	28.789	40.397	44.576
125	0.000	9.055	26.003	36.915	40.629
130	0.000	7.429	22.520	32.968	35.522
135	0.000	6.733	18.109	28.557	31.110
140	0.000	5.572	14.162	23.913	26.467
145	0.000	4.411	10.912	18.573	21.127
150	0.000	3.250	8.358	14.162	16.252
155	0.000	2.554	6.733	10.215	11.841
160	0.000	0.000	4.876	7.429	8.358
165	0.000	0.000	3.250	5.340	5.804
170	0.000	0.000	0.000	3.250	3.483
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75S-4-L30-840-EM10WLP-DIM-UNV(EMER MODE)\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	186.18	N.A.	12.20
0-30	389.44	N.A.	25.60
0-40	623.42	N.A.	41.00
0-60	1047.56	N.A.	68.90
0-80	1308.18	N.A.	86.10
0-90	1370.41	N.A.	90.20
10-90	1321.96	N.A.	87.00
20-40	437.24	N.A.	28.80
20-50	664.18	N.A.	43.70
40-70	579.17	N.A.	38.10
60-80	260.62	N.A.	17.10
70-80	105.59	N.A.	6.90
80-90	62.23	N.A.	4.10
90-110	76.57	N.A.	5.00
90-120	104.61	N.A.	6.90
90-130	125.26	N.A.	8.20
90-150	145.75	N.A.	9.60
90-180	149.59	N.A.	9.80
110-180	73.02	N.A.	4.80
0-180	1520.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.46
10-20	137.72
20-30	203.26
30-40	233.98
40-50	226.94
50-60	197.20
60-70	155.03
70-80	105.59
80-90	62.23
90-100	41.90
100-110	34.68
110-120	28.03
120-130	20.65
130-140	13.38
140-150	7.11
150-160	2.98
160-170	0.82
170-180	0.04

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.6	16.0	15.1	16.5	17.1	16.8	18.3	17.4	18.8	19.3
	3H	15.8	17.0	16.3	17.6	18.1	19.2	20.5	19.8	21.0	21.6
	4H	16.1	17.3	16.6	17.8	18.4	20.4	21.6	20.9	22.1	22.7
	6H	16.2	17.4	16.8	17.9	18.5	21.5	22.6	22.1	23.2	23.8
	8H	16.2	17.3	16.8	17.9	18.5	22.1	23.2	22.7	23.7	24.4
	12H	16.2	17.3	16.8	17.8	18.5	22.7	23.7	23.3	24.3	25.0

### UGR Viewed Endwise

4H	2H	15.4	16.6	15.9	17.2	17.8	17.2	18.4	17.7	18.9	19.6
	3H	16.8	17.8	17.4	18.4	19.1	19.8	20.8	20.4	21.4	22.0
	4H	17.3	18.2	17.8	18.8	19.4	21.1	22.0	21.7	22.6	23.3
	6H	17.5	18.3	18.1	19.0	19.6	22.4	23.2	23.0	23.8	24.5
	8H	17.6	18.4	18.2	19.0	19.6	23.1	23.9	23.7	24.5	25.2
	12H	17.6	18.3	18.2	18.9	19.6	23.8	24.5	24.5	25.2	25.9

8H	4H	17.9	18.7	18.5	19.3	20.0	21.2	22.0	21.8	22.6	23.3
	6H	18.3	19.0	19.0	19.6	20.3	22.7	23.4	23.4	24.0	24.7
	8H	18.5	19.0	19.1	19.7	20.4	23.5	24.1	24.2	24.8	25.5
	12H	18.5	19.0	19.2	19.7	20.5	24.4	24.9	25.1	25.6	26.4

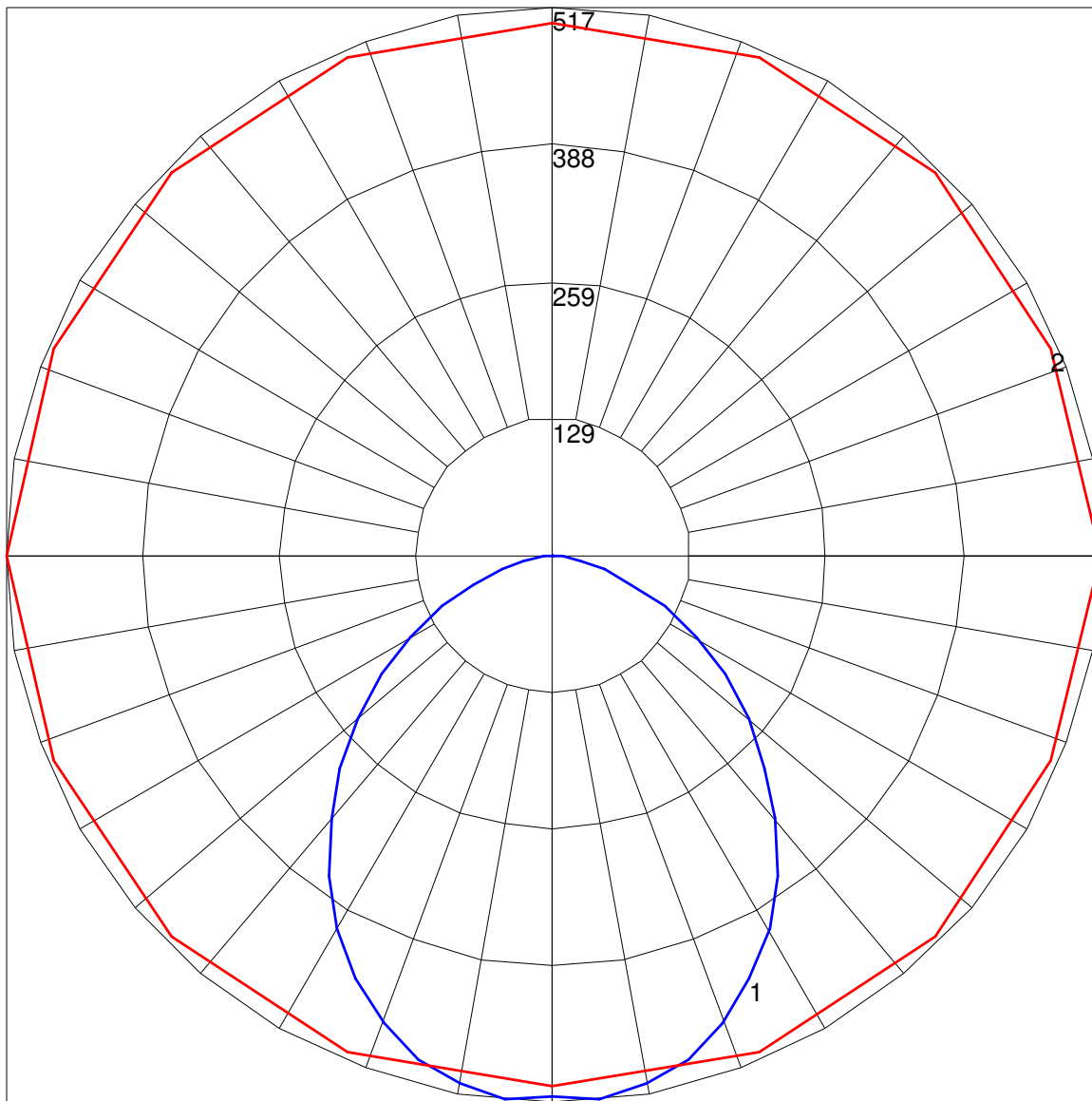
12H	4H	18.1	18.8	18.7	19.4	20.1	21.2	21.9	21.8	22.6	23.3
	6H	18.6	19.2	19.3	19.8	20.6	22.7	23.3	23.4	23.9	24.7
	8H	18.8	19.3	19.5	20.0	20.8	23.6	24.1	24.2	24.8	25.5

Maximum UGR = 26.4

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## POLAR GRAPH



Maximum Candela = 517.269 Located At Horizontal Angle = 0, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)